QUALITY CONTROL

Name of the Work:	Construction of Culverts at Ravindra nagara 1st Main Road in SSD ward No - 13
Job No:	013- 11- 000051
Work order No:	EE/ DD/ WO/ 179/ 11-12
BR No:	379/ 21-7-14

On verification of quality control test reports available in the file and also from inspection report of Technical Team Deployed for this purpose generally the work executed is satisfactory. Compliance of Quality Control Test Reports as per MORT&H at this stage is not feasible since this work was executed Two years back.

Assistant Executive Engineer
Shettyhalli Sub Division
Bruhat Bengaluru Mahanagara Palike

Executive Engineer
Dasarahalli Division, Dasarahalli Zone
Bruhat Bengaluru Mahanagara Palike

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.13/KRIDL/CEMENT/2013-14

Date: 15.03.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, PIU, Bangalore.
NAME OF THE WORK	:	Construction of culverts Ravindra Nagara 1st Main Road in SSD in Ward No. 13, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2013-14 Dated: 12.03.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

Civil-Tech Consultants & Engineers Bangalore

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

AE 13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

M/s. Civil-Tech Consultants & Engineers
 # 23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.13/KRIDL/SAND/2013-14 : 15.03.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, PIU, Bangalore.

Name of Work : Construction of culverts Ravindra Nagara 1st Main Road in SSD in Ward No. 13, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2013-14 Dated: 12.03.2014

Date of Testing : 15.03.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	73	3.65	3.65	96.4	90-100
2.36	258	12.90	16.55	83.5	75-100
1.18	421	21.05	37.60	62.4	55-90
600 Micron	492	24.60	62.20	37.8	35-59
300 Micron	507	25.35	87.55	12.5	8-30
150 Micron	185	9.25	96.80	3.2	0-10

Note:

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3. Any Query regarding the report must be reported within 15 days from the date of testing.

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4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

AE 13

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